

Author Index to Volume 21

- Adams, S.: See Haack, B.
- Ahmad, S. P., Middleton, E. M., and Deering, D. W.: Computation of Diffuse Sky Irradiance from Multidirectional Radiance Measurements, 185
- Allen, L. H.: See Chen, E.
- Anderson, V.: See Nelson, R.
- Badhwar, G. D., Gargantini, C. E., and Redondo, F. V.: Landsat Classification of Argentina Summer Crops, 111
- Bernard, R., Frezal, M. E., Vidal-Madjar, D., Guyon, D., and Riom, J.: Nadir Looking Airborne Radar and Possible Applications to Forestry, 297
- Bryant, N.: See Haack, B.
- Case, D.: See Nelson, R.
- Chen, E. and Allen, L. H., Jr.: Comparison of HCMM and GOES Satellite Temperatures and Evaluation of Surface Statistics, 341
- Daughtry, C. S. T.: See Grant, L.
- Deering, D. W.: See Ahmad, S. P.
- Fagerlund, E.: See Kleman, J.
- Field, R. T.: See Wen-Yao, L.
- Frezal, M. E.: See Bernard, R.
- Gantt, R. G.: See Wen-Yao, L.
- Gargantini, C. E.: See Badhwar, G. D.
- Goel, N. S. and Grier, T.: Estimation of Canopy Parameters of Row Planted Vegetation Canopies Using Reflectance Data for Only Four View Directions, 37
- Grant, L., Daughtry, C. S. T., and Vanderbilt, V. C.: Variations in the Polarized Leaf Reflectance of *Sorghum bicolor*, 333
- Grier, T.: See Goel, N. S.
- Guyon, D.: See Bernard, R.
- Haack, B., Bryant, N., and Adams, S.: An Assessment of Landsat MSS and TM Data for Urban and Near-Urban Cover Digital Classification, 201
- Hapke, B.: See Woessner, P.
- Hill, G. J. E. and Kelly, G. D.: Habitat Mapping by Landsat for Aerial Census of Kangaroos, 53
- Horning, N.: See Nelson, R.
- Jackson, T. J. and O'Neill, P.: Temporal Observations of Surface Soil Moisture Using a Passive Microwave Sensor, 281
- Kelly, G. D.: See Hill, G. J. E.
- Kleman, J. and Fagerlund, E.: Influence of Different Nitrogen and Irrigation Treatments on the Spectral Reflectance of Barley, 1
- Klemas, V.: See Wen-yao, L.
- Labovitz, M. L. and Masuoka, E. J.: Stochastic Nature of Landsat MSS Data, 263
- Masuoka, E. J.: See Labovitz, M. L.
- Middleton, E. M.: See Ahmad, S. P.
- Nelson, R., Case, D., Horning, N., Anderson, V., and Pillai, S.: Continental Land Cover Assessment Using Landsat MSS Data, 61
- O'Neill, P.: See Jackson, T. J.
- Otterman, J., Strebel, D. E., and Ranson, K. J.: Inferring Spectral Reflectance of Plant Elements by Simple Inversion of Bidirectional Reflectance Measurements, 215
- Philpot, W. D.: See Vodacek, A.
- Pillai, S.: See Nelson, R.
- Price, J. C.: Calibration of Satellite Radiometers and the Comparison of Vegetation Indices, 15
- Price, J. C.: Combining Panchromatic and Multispectral Imagery from Dual Resolution Satellite Instruments, 119
- Redondo, F. V.: See Badhwar, G. D.
- Riom, J.: See Bernard, R.
- Rowntree, R. A.: See Sadowski, F. G.
- Sadowski, F. G., Sturdevant, J. A., Rowntree, R. A.: Testing the Consistency for Mapping

- Urban Vegetation with High-Altitude Aerial Photographs and Landsat MSS Data, 129
- Sandham, L. A., Van Rensburg, P. A. J.: Landsat as an Aid in Evaluating the Adequacy of a Grain Silo Network, 229
- Sellers, P. J.: Canopy Reflectance Photosynthesis, and Transpiration. II. The Role of Biophysics in the Linearity of their Interdependence, 143
- Strahler, A. H.: *See* Woodcock, C. W.
- Sturdevant, J. A.: *See* Sadowski, F. G.
- Tsonis, A. A.: Determining Rainfall Intensity and Type from GOES Imagery in the Midlatitudes, 29
- Vanderbilt, V. C.: *See* Grant, L.
- Van Rensburg, P. A. J.: *See* Sandham, L. A.
- Vidal-Madjar, D.: *See* Bernard, R.
- Vodacek, A. and Philpot, W. D.: Environmental Effects on Laser-Induced Fluorescence Spectra of Natural Waters, 83
- Wen-Yao, L., Field, R. T., Gantt, R. G., Klemas, V.: Measurement of the Surface Emissivity of Turbid Waters, 97
- Woessner, P. and Hapke, B.: Polarization of Light Scattered by Clover, 243
- Woodcock, C. W. and Strahler, A. H.: The Factor of Scale in Remote Sensing, 311

Subject Index to Volume 21

Aerial Photography

- Testing the Consistency for Mapping Urban Vegetation with High-Altitude Aerial Photographs and Landsat MSS Data, F. G. Sadowski, J. A. Sturdevant, and R. A. Rowntree, 129

AVHRR Imagery and Analysis

- Determining Rainfall Intensity and Type from GOES Imagery in the Midlatitudes, A. A. Tsonis, 29

Canopy Radiation Modeling

- Canopy Reflectance, Photosynthesis, and Transpiration. II. The Role of Biophysics in the Linearity of Their Interdependence, P. J. Sellers, 143
- Estimation of Canopy Parameters of Row Planted Vegetation Canopies Using Reflectance Data for Only Four View Directions, N. S. Goel and T. Grier, 37
- Inferring Spectral Reflectances of Plant Elements by Simple Inversion of Bidirectional Reflectance Measurements, J. Otterman, D. E. Strebel, and K. J. Ransom, 215

Fluorescence

- Environmental Effects on Laser-Induced Fluorescence Spectra of Natural Waters, A. Vodacek and W. D. Philpot, 83

Forestry

- Nadir Looking Airborne Radar and Possible Applications to Forestry, R. Bernard, M. E. Frezal, D. Vidal-Madjar, D. Guyon, and J. Riom, 297

GOES Imagery and Analysis

- Comparison of HCMM and GOES Satellite Temperatures and Evaluation of Surface Statistics, E. Chen and L. H. Allen, Jr., 341

- Determining Rainfall Intensity and Type from GOES Imagery in the Midlatitudes, A. A. Tsonis, 29

Habitat Mapping

- Habitat Mapping by Landsat for Aerial Census of Kangaroos, G. J. E. Gill and G. D. Kelly, 53

Land Mapping

- Continental Land Cover Assessment Using Landsat MSS Data, R. Nelson, D. Case, N. Horning, V. Anderson, and S. Pillai, 61
- The Factor of Scale in Remote Sensing, C. W. Woodcock and A. H. Strahler, 311
- Landsat Classification of Argentina Summer Crops, G. D. Badhwar, C. E. Gargantini, and F. V. Redondo, 111
- Landsat as an Aid in Evaluating the Adequacy of a Grain Silo Network, L. A. Sandham and P. A. J. van Rensburg, 229

Landsat Analysis

- An Assessment of Landsat MSS and TM Data for Urban and Near-Urban Land-Cover Digital Classification, B. Haack, N. Bryant, and S. Adams, 201
- Combining Panchromatic and Multispectral Imagery from Dual Resolution Satellite Instruments, J. C. Price, 119
- Continental Land Cover Assessment Using Landsat MSS Data, R. Nelson, D. Case, N. Horning, V. Anderson, and S. Pillai, 61
- Habitat Mapping by Landsat for Aerial Census of Kangaroos, G. J. E. Gill and G. D. Kelly, 53
- Landsat as an Aid in Evaluating the Adequacy of a Grain Silo Network, L. A. Sandham and P. A. J. van Rensburg, 229
- Landsat Classification of Argentina Summer Crops, G. D. Badhwar, C. E. Gargantini, and F. V. Redondo, 111

Stochastic Nature of Landsat MSS Data, M. L. Labovitz and E. J. Masuoka, 263

Testing the Consistency for Mapping Urban Vegetation with High-Altitude Aerial Photographs and Landsat MSS Data, F. G. Sadowski, J. A. Sturdevant, and R. A. Rowntree, 129

Microwave Radiometry

Nadir Looking Airborne Radar and Possible Applications to Forestry, R. Bernard, M. E. Frezal, D. Vidal-Madjar, D. Guyon, and J. Riom, 297

Temporal Observations of Surface Soil Moisture Using a Passive Microwave Sensor, T. J. Jackson and P. O'Neill, 281

Photosynthesis

Canopy Reflectance, Photosynthesis, and Transpiration. II. The Role of Biophysics in the Linearity of Their Interdependence, P. J. Sellers, 143

Polarization

Polarization of Light Scattered by Clover, P. Woessner and B. Hapke, 243

Variations in the Polarized Leaf Reflectance of *Sorghum bicolor*, L. Grant, C. S. T. Daughtry, and V. C. Vanderbilt, 333

Radar

Nadir Looking Airborne Radar and Possible Applications to Forestry, R. Bernard, M. E. Frezal, D. Vidal-Madjar, D. Guyon, and J. Riom, 297

Radiometric Calibration

Calibration of Satellite Radiometers and the Comparison of Vegetation Indices, J. C. Price, 15

Rainfall Estimation

Determining Rainfall Intensity and Type from GOES Imagery in the Midlatitudes, A. A. Tsonis, 29

Reflectance of Vegetation

Canopy Reflectance, Photosynthesis, and Transpiration. II. The Role of Biophysics in the

Linearity of Their Interdependence, P. J. Sellers, 143

Estimation of Canopy Parameters of Row Planted Vegetation Canopies Using Reflectance Data for Only Four View Directions, N. S. Goel and T. Grier, 37

Inferring Spectral Reflectances of Plant Elements by Simple Inversion of Bidirectional Reflectance Measurements, J. Otterman, D. E. Strebel, and K. J. Ransom, 215

Influence of Different Nitrogen and Irrigation Treatments on the Spectral Reflectance of Barley, J. Kleman and E. Fagerlund, 1

Polarization of Light Scattered by Clover, P. Woessner and B. Hapke, 243

Variations in the Polarized Leaf Reflectance of *Sorghum bicolor*, L. Grant, C. S. T. Daughtry, and V. C. Vanderbilt, 333

Satellite Observations

Calibration of Satellite Radiometers and the Comparison of Vegetation Indices, J. C. Price, 15

Combining Panchromatic and Multispectral Imagery from Dual Resolution Satellite Instruments, J. C. Price, 119

Comparison of HCMM and GOES Satellite Temperatures and Evaluation of Surface Statistics, E. Chen and L. H. Allen, Jr., 341

Continental Land Cover Assessment Using Landsat MSS Data, R. Nelson, D. Case, N. Horning, V. Anderson, and S. Pillai, 61

Landsat Classification of Argentina Summer Crops, G. D. Badhwar, C. E. Gargantini, and F. V. Redondo, 111

Stochastic Nature of Landsat MSS Data, M. L. Labovitz and E. J. Masuoka, 263

Scale

The Factor of Scale in Remote Sensing, C. W. Woodcock and A. H. Strahler, 311

Sky Irradiance

Computation of Diffuse Sky Irradiance from Multidirectional Radiance Measurements,

S. P. Ahmad, E. M. Middleton, and D. W. Deering, 185

Soil Moisture

Temporal Observations of Surface Soil Moisture Using a Passive Microwave Sensor, T. J. Jackson and P. O'Neill, 281

Thermal Relationships

Comparison of HCMM and GOES Satellite Temperatures and Evaluation of Surface Statistics, E. Chen and L. H. Allen, Jr., 341

Measurement of the Surface Emissivity of Turbid Waters, L. Wen-Yao, R. T. Field, R. G. Gantt, and V. Klemas, 97

Urban Analysis

Testing the Consistency for Mapping Urban Vegetation with High-Altitude Aerial Photographs and Landsat MSS Data, F. G. Sadowski, J. A. Sturdevant, and R. A. Rowntree, 129

Vegetation Indices

Calibration of Satellite Radiometers and the Comparison of Vegetation Indices, J. C. Price, 15

Water, Spectral Response

Environmental Effects on Laser-Induced Fluorescence Spectra of Natural Waters, A. Vodacek and W. D. Philpot, 83

Measurement of the Surface Emissivity of Turbid Waters, L. Wen-Yao, R. T. Field, R. G. Gantt, and V. Klemas, 97